

## Aviv Y. Landau, Ph.D., M.S.W

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### Education

- 2018 Ph.D.**, School of Social Work, University of Haifa, Haifa, Israel  
 Dissertation title: Interpersonal Rejection among Youth in Online Social Networks  
 Advisors: Professor Zvi Eisikovits and Professor Sheizaf Rafaeli
- 2015 M.S.W.**, School of Social Work, University of Haifa (Cum Laude)
- 2010 B.S.W.**, School of Social Work, University of Haifa

### Academic Appointments

- 2023-** **Research Assistant Professor**, The School of Policy and Practice, University of Pennsylvania.
- 2022-** **Co-director of the SAFElab**, The School of Policy and Practice, University of Pennsylvania.
- 2022-2023** **Postdoctoral research scientist**, The School of Policy and Practice, Annenberg School for Communication University of Pennsylvania.  
 Host: Professor Desmond Patton
- 2019- 2022** **Postdoctoral research scientist**, The Data Science Institute, Columbia University. Host: Professor Desmond Patton
- 2021- 2022** **Co-director of the SAFElab**, School of Social Work, Columbia University
- 2019- 2022** **Lecturer**, Field placement supervisor, SAFElab, School of Social Work, Columbia University
- 2019- 2021** **Associate director of the SAFElab**, School of Social Work, Columbia University
- 2018-2019** **Adjunct lecturer**, Mivchar, University of Haifa, School of Social Work
- 2015-2016** **Field instructor** for M.S.W students during their practical practice, University of Haifa

### Awards, Distinctions and Fellowships

- 2022** Participated in the 2022 Summer Training Institute for Research in Child Abuse and Neglect (Washington University in St. Louis)
- 2019-2020** Awarded the Haruv Institute Postdoctoral Fellowship

### **Teaching Experience – Columbia University**

- **Lecturer**
  - Field placement supervisor at Columbia School of Social Work
- **Visiting Lecturer**
  - Nursing Data Science Course- Columbia School of Nursing

### **Teaching Experience – Mivhar, University of Haifa**

- **Instructor**
  - Social Work Practice with Communities and Organizations
  - Scientific Writing

### **Work Experience**

- 2010-2018** Social Worker, Department of Education, Haifa Municipality; Worked in local schools with adolescents from marginalized communities.
- 2011-2012** Social Worker, Department of Drug Abuse and Addiction, Haifa Municipality; Worked as a street social worker to locate and intervene with youth at risk.

### **Membership and activities in professional associations**

- Society for Social Work and Research (SSWR)
- The Israeli Association of Social Workers.

### **Peer Reviewed Presentations**

- November 2023** Espeleta, H.C., Kautz, M., **Landau, A.**, Heider, P., Topaz, M., Lenert, L., & Hanson, R.F. (2023, November). *Stakeholder input in developing a novel, scalable tool to identify child abuse and neglect in primary care*. Poster presented at the annual meeting of the International Society for Traumatic Stress Studies, Los Angeles, CA.
- May 2023** Venkatram Chinmayi, **Landau Aviv**, Cohen Bevin, *Home Care Clinicians' Perspectives on Advance Care Planning for Older Patients who are Incapacitated with No Evident Advance Directives or Surrogates*, Annual Scientific Meeting of the American Geriatrics Society, Long Beach California
- January 2023** **Landau, A.Y.**, Blanchard, A., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., *Quantitative & Qualitative Advances for an NLP-Driven Child Abuse and Neglect Phenotype: A Qualitative Study*, Presentation, The Chadwick Center's San Diego Conference on Child and Family Maltreatment
- April 2022** Zhou, Y., Althobaiti, S., Idnay, B, **Landau, A.Y.**, Blanchard, Cato, K., Patton, D.U., & Topaz, M., *Considerations for Development of Child Abuse and Neglect Phenotype with Prioritizing Reduction of Racial Bias*; Poster presentation. Data Science Institute Day, Columbia University NY.
- January 2022** Aguilar, N.J., **Landau, A.Y.**, Taylor, K.A., Kleiner, S. & Patton, D.U., *Being Black and Grieving Online: Exploring the Digital Image-Based*

- May 2021** Grieving Practices of Black Youth, Presentation at the 26th Annual Conference of the Society for Social Work and Research (SSWR)  
**Landau, A.Y.**, Blanchard, A., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., *Considerations for Development of Child Abuse and Neglect Phenotype with Prioritizing Reduction of Racial Bias: A Qualitative Study*, Presentation, AMIA 2021 Virtual Clinical Informatics Conference, (Online).
- April 2021** **Landau, A.Y.**, Blanchard, A., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., *Considerations for Development of Child Abuse and Neglect Phenotype with Prioritizing Reduction of Racial Bias: A Qualitative Study* Poster presentation. Data Science Institute Day, Columbia University NY. (Online)
- December 2020** **Landau, A.Y.**, Blanchard, A., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., *Artificial Intelligence- Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction*, Poster presentation. Machine Learning in Science and Engineering, Columbia University NY. (Online)
- April 2020** Aguilar, N.J., Frey, W.R., **Landau, A.Y.**, Altman, R.L., Brower, S.H., Taylor, K.A., Weiss, A.K., & Patton, D.U., *Domain expertise, contextual analysis & data protection: Threefold approach to ethical use of visual social media data in research*, Visual research for social change conference, Columbia University, NY (Abstract accepted-conference cancelled due to COVID-19)
- March 2020** **Landau, A.Y.**, Topaz, M., & Patton, D.U., *Artificial Intelligence-Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction and Future Intervention*, Poster presentation. Data Science Institute Day, Columbia University NY. (Online)
- January 2019** **Landau, A.Y.**, Eisikovits, Z., & Rafaeli, S., (2019). Coping Strategies for Youth Suffering from Online Interpersonal Rejection: Presentation at the *Proceedings of the 52th Hawaii International Conference on System Sciences*.

### **Invited Presentations**

- October 2023** An Implementable Guideline for Developing Ethical AI Systems: The Evaluation of Child Abuse and Neglect Prediction, The Institute of Data, Evaluation, and Analytics at UNCG, (Hamid Nemati Presented) (awarded the IDEA Catalyst Award)
- March 2023** Social work ethics and ChatGPT, SP2 PhD program University of Pennsylvania
- October 2023** Social work ethics and ChatGPT, USC Center for AI in Society, USC University of South California
- September 2023** Building an Artificial Intelligence-Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Bias Reduction and Future Interventions, Data Driven Discovery Initiative, University of Pennsylvania
- November 2022** Advancing community expertise in the development of AI, Harvard Kennedy School, Government performance Lab
- August 2022** Building an Artificial Intelligence-Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Bias

- June 2022** Reduction and Future Interventions; University of Texas, T32 Precision Health Methodology Summer Bootcamp 2022 Program *Developing machine learning-based models to help identify child abuse and neglect: key ethical challenges and recommended solutions.*
- February 2021** AMIA Clinical Decision Support Workgroup *Artificial Intelligence- Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction and Future Intervention*, Data Science Night, Northwestern University, Illinois, USA (Online)
- October 2020** *Artificial Intelligence- Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction and Future Intervention*, 2nd Annual Michigan Institute for Data Science Consortium for Researchers in Training, Michigan University, Michigan, USA (Online)
- April 2020** *Social work in times of uncertainty: Discussion of challenges & innovative solutions for COVID-19*, Jerusalem, Israel (Online)
- November 2019** *Coping strategies for youth suffering from online interpersonal rejection.* Critical Media and Digital Studies Columbia University, NYC, NY, USA
- September 2019** *Coping strategies for youth suffering from online interpersonal rejection.* Augustin Chaintreu Ph.D. Seminar, Columbia University, NYC, NY, USA
- October 2018** *Coping strategies for youth suffering from online interpersonal rejection.* The Digital Research Forum. Tel Aviv University, Tel-Aviv, Israel.
- December 2015** *Online rejection among youth.* Online Social Supervision. The Hebrew University of Jerusalem, Jerusalem, Israel.

### **Organization of Conferences or Sessions**

- August 2023** AIES-23, Artificial Intelligence, Ethics, and Society, Program Committee
- October 2022** EAAMO'22, Online, Equity and Access in Algorithms, Mechanisms, and Optimization, Program Committee
- March 2022** Best Data Science Student Course Project competition at Columbia University, Competition Judge
- October 2021** EAAMO'21, Online, Equity and Access in Algorithms, Mechanisms, and Optimization, Program Committee

### **Publications**

#### **Referred Publications**

- **Landau, A.Y.**, & Topaz, M., Developing Innovative technologies for Identifying Child abuse and neglect; The Participation of Professionals and Community, *Nekudat Mifgash* (in Hebrew) (In Press)
- Aguilar, N.J., **Landau, A.Y.**, Taylor, K.A., Kleiner. S. & Patton, D.U., Digital Mourning in Tweets: Multi-Modal Analysis of Image-Based Grieving Practices among Gang-Affiliated Black Youth, *New Media and Society* (In Press)
- Han, Y., **Landau, A.Y.**, et al., An Implementable Guideline for Developing Ethical AI and Evaluation on Child Abuse and Neglect Prediction *Proceedings of the 56th Hawaii International Conference on System Sciences*, 6828-6837. (Nominated for best paper)

- **Landau, A.Y.**, Venkatram, C., Song, J., Topaz, M., Kiltzman, R., Shang, J., Stone, P.W. McDonald, M.V., & Cohen, B. Home Care Clinicians' Perspectives on Advance Care Planning for Patients at Risk for Becoming Incapacitated with No Evident Advance Directives or Surrogates: A Qualitative Study, *The Journal of Hospice and Palliative Nursing* (In press).
- Patton, D.U., **Landau, A.Y.**, Mathiyazhagan, S., (2023). ChatGPT for Social Work Science: Ethical Challenges and Opportunities. *Journal of the Society for Social Work and Research*. (All authors contributed equally)
- **Landau, A.Y.**, Blanchard, A., Atkins, N., Salazar, S., Cato, K., Patton, D.U., & Topaz, M., (2023). Black and Latinx Primary Caregiver Considerations for Developing and Implementing a Machine Learning–Based Model for Detecting Child Abuse and Neglect with Implications for Racial Bias Reduction: Qualitative Interview Study with Primary Caregivers. *JMIR Formative Research*. 7:e40194
- Aguilar, N.J., **Landau, A.Y.**, Mathiyazhagan, S., Auyeung, A., Dillard, S., & Patton, D.U. (2023) Applying Reflexivity to Artificial Intelligence for Researching Marginalized Communities and Real-World Problems. *Proceedings of the 56th Hawaii International Conference on System Sciences*, 712-721.
- Patton, D.U., Aguilar, N.J., **Landau, A.Y.**, et al., (2022). Community recommendations for preventing gun violence: A mixed method approach. *Preventive Medicine*. 165, 1-10.
- Song, J., Topaz, M., **Landau, A.Y.**, Kiltzman, R., Shang, J., Stone, P.W. McDonald, M.V., & Cohen, B. (2022) Using Natural Language Processing to Identify Acute Care Patients Who Lack Advance Directives, Decisional Capacity, and Surrogate Decision Makers. *PLOS ONE* 17(7): e0270220.
- **Landau, A.Y.**, Ferrarello, S., Blanchard, A., Cato, K., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., (2022) Developing machine learning-based models to help identify child abuse and neglect: key ethical challenges and recommended solutions. *Journal of the American Medical Informatics Association*. 29:3, 576-580.
- **Landau, A.Y.**, Blanchard, A., Cato, K., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., (2022) Considerations for Development of Child Abuse and Neglect Phenotype with Prioritizing Reduction of Racial Bias: A Qualitative Study. *Journal of the American Medical Informatics Association*. 29:3, 512-519.
- Patton, D.U., Mathiyazhagan, S., **Landau, A.Y.**, (2021) Meet them where they are: A social work informed the conceptual framework for youth inclusion in AI violence prevention systems: *MIT Press*. (All authors contributed equally)
- **Landau, A.Y.**, Eisikovits, Z., & Rafaeli, S., (2019). Coping Strategies for Youth Suffering from Online Interpersonal Rejection: *Proceedings of the 52th Hawaii International Conference on System Sciences*, 2176-2185.

### Submitted Manuscripts

- Mathiyazhagan, S., & **Landau, A.Y.**, Ren, T., Patton, D.U, Anti-Racist Approaches to Qualitative Methods in Data Science (Submitted to Harvard data science review)
- Song, J., Topaz, M., **Landau, A.Y.**, Kiltzman, R., Shang, J., Stone, P.W. McDonald, M.V., & Cohen, B. (2022) Identifying Patients Who Lack Advance Directives, Decisional Capacity, and Surrogate Decision Makers in Home Health Care: Natural Language Processing Study (Submitted to JAMDA)

- **Landau, A.Y.**, Blanchard, A., Patton, D.U., Topaz, M., & Cato, K. *The Development of an Explainable Child Abuse and Neglect Machine Learning-based Model in Emergency Department Settings with Implications for Socio-economic Bias Reduction* (Submitted to PlosOne)
- **Landau, A.Y.**, Espeleta, H., Mathiyazhagan, S., et al. Participation of marginalized youth in designing a machine learning-based model to identify child abuse and neglect. (Submitted)

### **Manuscripts in Progress**

- Weiss, A.K., Kanitkar, A.S., Altman, R.L., **Landau, A.Y.**, Patton, D.U., *White and non-white mass shooting perceptions in news articles.*
- Robertson, D., Williams, M., Ren, T., Mathiyazhagan, S., Willis, H., **Landau, A.Y.**, Patton, D.U., Cogburn, C., Metaverse and the future of social work
- Aguilar, N.J., **Landau, A.Y.**, et al. Government abandonment.

### **Organization of Conferences or Sessions**

- 2023** Artificial Intelligence, Ethics, and Society, AIES-23 (AAAI / ACM), Program Committee
- 2022** Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO), Program Committee. (ACM Conference)
- 2021** Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO), Program Committee. (ACM Conference)

### **Grants**

- 2023-2024 Penn4C Grant**  
*Re-Imagining Childhood Asthma and Electronic Health Records: a Community-Based Approach*  
 Principal Investigator: Kenrick Cato  
 Principal Investigator: Andrew Head  
 Co-Investigator: **Aviv Y. Landau**  
 Direct Costs: \$60,000
- 2021-2023 Minerva Grant**  
*Artificial Intelligence-Assisted Identification of Elder Mistreatment in Clinical Settings*  
 Principal Investigator: **Aviv Y. Landau**  
 Principal Investigator: Zvi Eisikovits  
 Principal Investigator: Tova Band-Winterstein  
 Direct Costs: 36,000 Euros
- 2020-2023 Seeds Funds Program, The Data Science Institute, Columbia University**  
*Artificial Intelligence-Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction and Future Interventions*  
 Principal Investigator: **Aviv Y. Landau**  
 Principal Investigator: Maxim Topaz  
 Co-investigator: Desmond U. Patton  
 Direct Costs: \$175,000

**External Reviewer**

- Journal Digital Health
- Journal: Journal of Interpersonal Violence
- Journal: New Media & Society
- Journal: Journal of Adolescent Research
- Journal: Society & Welfare (published in Hebrew)
- Conference ETHICOMP 2024
- Conference AIES-23
- Conference AMIA 2023
- Conference: EAAMO'21
- Conference: EAAMO'22
- Conference: AMIA 2022 Clinical Informatics Conference
- Conference: HICSS
- Conference: AMIA 2023 Clinical Informatics Conference
- Grant: Israel Ministry of Science and Technology: Science Farefront

**Students Supervised and Mentored**

- 2023-2024; Postdoc: Javier Garcia-Perez, University of Pennsylvania,
- 2023-2024; PhD Student: Kal Brown, University of Pennsylvania,
- 2023-2024; PhD Student: Christiana Dillard, University of Pennsylvania,
- 2023-2024; PhD Student: Sandhya Rani Jha, University of Pennsylvania,
- 2021-2022; MSW Field Placement; Minahil Salem; Columbia University
- 2020-2021; MSW Field Placement; Sarah Dillard; Columbia University
- 2020-2021; MSW Field Placement; Abby Kamen; Columbia University
- 2020-2021; MSW Field Placement; Toni Gardner; Columbia University
- 2019-2020; MSW Field Placement; Natosha Dobbins; Columbia University
- 2019-2020; MSW Field Placement; Kawai Taylor; Columbia University
- 2015-2016; MSW Field Placement; Liza Metuki, University of Haifa

**From the press**

- <https://datascience.columbia.edu/dsi-postdoctoral-fellow-aviv-landau-modernizing-social-work-profession-data-science-techniques>
- <https://www.sp2.upenn.edu/researchers-social-scientists-must-address-chatgpts-ethical-challenges-before-using-it-for-research/>
- <https://penntoday.upenn.edu/news/social-scientists-must-address-chatgpts-ethical-challenges-using-it-research>